EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2303	123/195C.ccls. or 123/572,573,574.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 10:19
S2	1	((crank$1case or crank) near10 ventilat$4) same (blow$1by) same (stem or insert or helical or contour) same (elastomer or thermoplastic)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 10:21
S3	926	123/572	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 10:27
S4	21573	(stem or insert or helical or contour) same (elastomer or thermoplastic)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 10:27
S5	11	S4 and S3	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 10:27
S6	6	S4 and S1	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 10:29
S7	9	((crank$1case or crank) near10 ventilat$4) same (blow$1by) same (stem or insert or helical or contour or spiral$3)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 10:31
S8	136	((blow$1by) near10 gas) same (stem or insert or helical or contour or spiral$3)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 10:33
S9	33	S8 and S1	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 10:33
S10	8	((cylinder head) same (oil separator)).ti.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 10:35
S11	80	((cylinder head) same (oil separator)).ab.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 10:36

S12	2	("6290738" | "6309436").PN. OR ("6811586").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/05 10:51
S13	8	("4569323" | "5944001" | "6247463" | "6279556" | "6591820").PN. OR ("6725849").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/05 10:51
S14	14	("5487371" | "5507268" | "5542402" | "5564401" | "5954035").PN. OR ("6591820").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/05 10:52
S15	22	("20020088445" | "3976448" | "4089309" | "4370971" | "4515137" | "5024203" | "5239972" | "5277154" | "5313926" | "5417184" | "5460147" | "5494020" | "5564401" | "5617834" | "5694907" | "5954035" | "6058917" | "6152120" | "6161529" | "6591820" | "6994078" | "D393471").PN. OR ("7428898").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/02/05 11:00
S16	2853	55/337,400,520,385.3.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 11:24
S17	16	((blow$1by) same ventilat$4) same (crank or crankcase or crank-case) same (helical or spiral$3 or cyclone or helix)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 11:26
S18	1	("5261380").PN.	US-PGPUB; USPAT	OR	OFF	2009/02/05 11:26
S20	153	55/dig.19.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 11:36
S21	975	123/184.22,184.24,184.47,184.51,184.53,184.55,184.56.CCLS.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 13:54
S22	281	S21 and (heli$5 or spiral$3 or cyclone or tornado or swirl$3 or scroll$3 or screw$3 or cork$3 or twist$3)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 13:55
S23	3	S21 and ((heli$5 or spiral$3 or cyclone or tornado or swirl$3 or scroll$3 or screw$3 or cork$3 or twist$3) same (blow$1by))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 13:56
S24	1196	123/196cp,196m,196a.ccls.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 13:56
S25	0	S24 and ((heli$5 or spiral$3 or cyclone or tornado or swirl$3 or scroll$3 or screw$3 or cork$3 or twist$3) same (blow$1by))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 13:57
S26	212	S24 and ((heli$5 or spiral$3 or cyclone or tornado or swirl$3 or scroll$3 or screw$3 or cork$3 or twist$3))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 13:57

S27	7	S24 and ((heli$5 or spiral$3 or cyclone or tornado or swirl$3 or scroll$3 or screw $3 or cork$3 or twist$3) and blow-by)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 13:57
S28	50	(("(20080135030") or ("5969682") or ("4516872") or ("4813121") or ("5953188") or ("6369777") or ("4289611") or ("4528603") or ("4564374") or ("4577485") or ("4891033") or ("5011482") or ("5383924") or ("5514206") or ("6183407") or ("6725849") or ("20030150436") or ("3917779") or ("3794451") or ("4320267") or ("4320550") or ("4406276") or ("4463779") or ("4473715") or ("4567049") or ("4787345") or ("4824392") or ("4975006") or ("5026233") or ("5266753") or ("5349988") or ("5353179") or ("5430991") or ("5653943") or ("5704425") or ("5829814") or ("5871444") or ("5878522") or ("5915873") or ("5933696") or ("5969913") or ("5984715") or ("6205001") or ("6890681") or ("6949033") or ("20030017381") or ("20080034688") or ("20080315117") or ("4828533") or ("6244359") or ("").pn.")).PN.	US-PGPUB; USPAT	OR	OFF	2009/02/05 14:02
S29	0	25/06.ipc.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 14:14
S30	60	f02b25/06.ipc.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 14:14
S31	378	(separator) same (crank or crankcase) same (blowby or blow-by)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 14:18
S32	153	S31 and (heli$5 or spiral$3 or cyclone or tornado or swirl$3 or scroll$3 or screw $3 or cork$3 or twist$3)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 14:18
S33	180	(blowby or blow-by) and crankcase and (elastomer$3 or thermoplastic)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 14:42
S34	62	(blowby or blow-by) and crankcase and (elastomer$3 or thermoplastic) and separator	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/05 14:42
S35	19	(oil near10 separator) same (elastom$3)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/06 11:56
S36	223	(oil near10 separator) and (elastom$3)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/06 12:00
S37	35	(oil near10 separator) and (elastom$3) and crankcase	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/06 12:00

S38	30	(oil near10 separator) and (elastom$3) and blow$1by	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/02/06 12:00
S39	0	(60/593019).APP.	US-PGPUB; USPAT	OR	OFF	2009/02/06 12:22
S40	6	(blow$1by) with (gas oil) near20 crankcase near30 (conical conic)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 10:02
S41	7	(blow$1by) with (gas oil) near20 crankcase near30 (conical conic cone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 10:04
S42	12514	(cyclone with separator)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/11/06 10:46
S43	4094	S42 and (cone or conical or taper$3 or "press-fit" or (press near2 fit))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/11/06 10:47
S44	1258	S42 same (cone or conical or taper$3 or "press-fit" or (press near2 fit))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/11/06 10:47
S45	9	S44 and "123"/.clas.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/11/06 10:47
S46	34746035	@ad<"20071113"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 10:51
S47	1221	S44 and S46	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/11/06 10:51

S48	38737	insert same (cone or conical or taper$3 or "press-fit" or (press near2 fit))	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/11/06 10:52
S49	33	S44 and S48	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/11/06 10:52
S50	0	((conical near3 contour) same insert) and blowby	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/11/06 11:01
S51	1	((conical near3 contour) same insert) and blow$1by	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/11/06 11:02
S52	50	((conical near3 contour) same insert)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/11/06 11:02
S53	6	(engine same blowby same insert same taper$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 10:23
S54	16443	(cone or conical or taper$3 or "press-fit" or (press near2 fit)).ti.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/12/07 10:25
S55	0	((cone or conical or taper$3 or "press-fit" or (press near2 fit)) and blowby).ti.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/12/07 10:25
S56	12	((cone or conical or taper$3 or "press-fit" or (press near2 fit)) and blowby).ab.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/12/07 10:25
S57	971	123/572	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/12/07 10:31
S58	25	S57 and ((cone or conical or taper$3 or "press-fit" or (press near2 fit)) and blowby)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/12/07 10:31

S59	1033	123/195C.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 10:38
S60	3	S59 and ((cone or conical or taper$3 or "press-fit" or (press near2 fit)) and blowby)	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/12/07 10:38
S61	971	123/572	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2009/12/07 11:17
S62	971	S61	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 11:17
S63	22	("2974652" | "4565164" | "4602595" | "4627406").PN. OR ("4723529").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/07 11:30
S64	0	(55/337).ccls. and (123/41.86).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 13:28
S65	6	(55/337).ccls. and ((123/41.86).ccls. (123/572).ccls.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 13:29
S66	9	("2979038" | "5239972" | "5617834" | "6152120" | "6279556").PN. OR ("6530367").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/07 13:56
S67	9	("3721069" | "5450835" | "5460147" | "6024058" | "6279556" | "6591820" | "6626163" | "6694957").PN. OR ("6832603").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/12/07 14:17
S68	144	123/572.ccls. and (spiral or taper or tapered or cone)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 14:24

S69	1	("4179273").PN.	US-PGPUB; USPAT	OR	OFF	2009/12/07 15:08
S70	4141	"55"/.clas. and (air same separator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 15:09
S71	13	"55"/.clas. and (air same separator same blowby)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 15:09
S72	1377	fluid same separat$4 same diverg$4 same (helical or spiral or conical or tapered)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 15:14
S73	137	fluid same separat$4 same diverg$4 same (helical or spiral or conical or tapered) same engine	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/12/07 15:26
S74	20	((JUERGEN) near2 (WAGNER)).INV.	US-PGPUB; USPAT	OR	ON	2010/01/26 10:30
S75	5	((ARMIN) near2 (PRASKA)).INV.	US-PGPUB; USPAT	OR	ON	2010/01/26 10:31
S76	4	(("4158449") or ("1206007") or ("4218851") or ("0767721")).PN.	US-PGPUB; USPAT	OR	OFF	2010/01/26 10:34
S77	1	("6648939").PN.	US-PGPUB; USPAT	OR	OFF	2010/01/26 10:35
S78	8	("0514439" | "0692390" | "1044208" | "5342422").PN. OR ("6648939").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/26 10:36
S79	42	("2936043" | "20040003579" | "3572015" | "3641745" | "3893914" | "3915679" | "3966443" | "4158449" | "5035730" | "6045933" | "6648939" | "6860915" | "7004987" | "7163626" | "0767721").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/26 10:36

S80	2	("4187089").PN. OR ("7163626").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/26 10:54
S81	23	("0899820" | "1735298" | "1952281" | "2193209" | "2899014" | "3413778" | "3633342" | "3884660").PN. OR ("4187089").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/26 10:55
S82	30	("0338772" | "1360349" | "3151961" | "3161490" | "3336732" | "3641745" | "3778984" | "3915679" | "3917474" | "4070168" | "4142380" | "4187089" | "4255099").PN. OR ("4622048").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/26 10:58
S83	48	("2323707" | "2489618" | "2662610" | "2818935" | "3421296" | "3444672" | "3483676" | "3520114" | "3590560" | "3611679" | "3713280").PN. OR ("3915679").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/26 11:03
S84	12	("3469566" | "3915679" | "4127396" | "4218223" | "4388091" | "4394145" | "4469490" | "4950317" | "5320653" | "5403367").PN. OR ("7004987").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/26 11:04
S85	23	("1735298" | "2732032" | "3520114" | "3902876" | "3915679" | "4008059" | "4162906").PN. OR ("4289611").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/26 11:14
S86	26	("0472308" | "0735192" | "1797310" | "3633343" | "3641745").PN. OR ("3966443").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/01/26 11:21
S87	68	(cylinder adj head) same (separator) near100 (conical$3 contour$3 taper$3 hehical taper$3 spiral$3 tub$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/19 18:52
S88	240	55/324.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/20 10:18
S89	40230	(cylinder adj head) same ((oil "blow-by" gas fluid))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/20 10:22
S90	1078	123/184.22,184.24,184.47,184.51,184.53,184.55,184.56.CCLS.	US-PGPUB; USPAT; EPO; JPO	ADJ	ON	2010/04/20 10:22

S91	121	S89 and S90	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/20 10:22
S92	1876	(123/572,573,574).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/04/20 10:26
S93	533	S92 and (cylinder adj head)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/20 10:27
S94	15	("2796853" | "2974652" | "4156406" | "4175937").PN. OR ("4565164").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/20 10:42
S95	38	("2547587" | "3166061" | "3241534" | "3359960" | "3381674" | "3589347" | "3659573" | "3677240" | "3766898" | "3908617" | "4069796" | "4501234" | "4517951").PN. OR ("4602607").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/20 10:45
S96	48	("1039677" | "1447160" | "2209607" | "2228129" | "2344068" | "2779434" | "3234716" | "3293832" | "3406504" | "3686831" | "3720045" | "3976448" | "4963329" | "5069192" | "5080082" | "5129371" | "5239972" | "5261380" | "5450835" | "5460147" | "5487371").PN. OR ("5617834").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/20 10:57
S97	9	("2979038" | "5239972" | "5617834" | "6152120" | "6279556").PN. OR ("6530367").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/20 10:58
S98	17	("5487371" | "5507268" | "5542402" | "5564401" | "5954035").PN. OR ("6591820").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/20 11:16
S99	2343	(123/572,573,574,41.86).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/04/20 11:41

S100	720	S99 and (inclin$5 tilt$3 slant$3 angle lean$3 pitch$3 wobbl$3 shift$3 tip$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/20 11:44
S101	832	S99 and (inclin$5 tilt$3 slant$3 angle lean$3 pitch$3 wobbl$3 shift$3 tip$4 horizontal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/20 11:46
S102	5	(("6648939") or ("4158449")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/04/20 14:24
S103	8	("0514439" | "0692390" | "1044208" | "5342422").PN. OR ("6648939").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/20 14:46
S104	16	(("7163626") or ("7004987") or ("3915679") or ("3966443") or ("3572015")).PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/04/20 14:53
S105	7	("20050005921" | "4721090" | "4993375" | "5123385" | "5129371" | "5323740" | "6443136").PN. OR ("7690367").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/20 15:04
S106	899	(cylinder near5 head) same (oil gas fluid "blow-by" water) same (separator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/20 15:06
S107	736	(cylinder near5 head) same (oil gas "blow-by") same (separator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/20 15:06

| S108 | 128 | S107 and (123/572-574).ccls. | US-PGPUB;
USPAT;
USOCR; FPRS;
EPO; JPO;
DERWENT;
IBM_TDB | OR | ON | 2010/04/20
15:06 |

EAST Search History (Interference)

< This search history is empty>

4/20/2010 4:44:46 PM
C:\ Documents and Settings\ hnguyen34\ My Documents\ EAST\ Workspaces\ 10592029_Blow_By_Gas Oil Separator Insert for Cylinder Head Cover.wsp